

IN THE CLAIMS:

Please amend the claims as follows:

Claim 1 (Currently amended): An arrangement for data transmission in a mine or the like, the arrangement comprising:

a mine information system consisting of at least a control unit [(13)] of the mine[;],

a mining vehicle [(1)] information system consisting of at least a control unit [(12)] of the mining vehicle[;],

at least one supply cable [(2)] that comprises at least one data transmission cable ~~(16 to 19)~~ and is arranged to transmit data between the information system of the mine and the information system of the mining vehicle, and the first end of the supply cable [(2)] is connected to the information system of the mine[;],

a reel [(5)] arranged in the mining vehicle [(1)] and having a drum [(20)] rotatable around its centre axis [(21)] for storing the supply cable [(2)] in the mining vehicle [(1)];,

means for connecting the second end of the supply cable [(2)] to the reel [(5)] drum [(20)];,

connecting means for connecting the data transmission cable ~~(16 to 19)~~ in the supply cable [(2)] from the rotating drum [(20)] to the information system of the mining vehicle, ~~characterized in that~~ and wherein

the supply cable [(2)] has at least a first data transmission cable [(16)] for transmitting data unidirectionally from the information system of the mine to the information system of the mining vehicle, and a second data transmission cable [(17)] for unidirectional data transmission from the information system of the mining vehicle to the information system of the mine,

said connection means comprise a first rotating connection element [(27)] on the first end [(20a)] of the drum [(20)], and a second rotating connection element [(28)] on the second end [(20b)] of the drum [(20);],

the rotating connection elements (27,28) are arranged on the centre axis [(21)] of the drum[;],

the rotating connection element (27,28) comprises a rotor [(31)] and a stator [(32)], with the rotor [(31)] arranged to rotate with the drum [(20)] around the centre axis [(21)] and the stator [(32)] arranged non-rotatable[;],

the rotor [(31)] of the first rotating connection element [(27)] is connected to the first data transmission cable [(16)] of the supply cable [(2)], and the stator [(32)] is connected to the information system of the mining vehicle[;],

and the rotor [(31)] of the second rotating connection element [(28)] is connected to the second data transmission cable [(17)] of the supply cable [(17)], and the stator [(32)] is connected to the information system of the mining vehicle.

Claim 2 (Currently amended): An arrangement as claimed in claim 1, ~~characterized in that~~ wherein

the supply cable [(2)] comprises more than two one-way data transmission cables {16 to 19),

and only two data transmission cables (16,17) at a time are connected to transmit information between the information systems.

Claim 3 (Currently amended): An arrangement as claimed in claim 1, ~~or 2, characterized~~
~~in that~~ wherein

the supply cable [(2)] comprises at least one electric supply cable [(15)],
and the drum has power transmission means [(26)] for establishing an electric
connection between the electric supply cable [(15)] and mining vehicle [(1)] electric system
[(7)].

Claim 4 (Currently amended): An arrangement as claimed in ~~any one of the preceding~~
~~claims, characterized in that~~ claim 1, wherein

the data transmission cables ~~(16 to 19)~~ are optical fibre cables,
and the rotating connection elements ~~(27,28)~~ are rotating optical fibre connectors.

Claim 5 (Currently amended): A cable reel for storing a supply cable of a mining
vehicle, the reel [(5)] comprising:

a drum [(20)] on the outer surface of which a supply cable [(2)] is wound[;],
a first end [(20a)] and a second end [(20b)] of the drum [(20);],
a centre axis [(21)] around which the drum [(20)] turns[; and],
connection means for connecting the at least one data transmission cable ~~(16 to 19)~~ in the
supply cable [(2)] to an information system external to the reel [(5)], ~~characterized in that~~ and
wherein

the supply cable [(2)] has a first data transmission cable [(16)] and a second data
transmission cable [(17);],

on the first end [(20a)] of the drum [(20)], there is a first rotating connection element [(27);],

on the second end [(20b)] of the drum [(20)], there is a second rotating connection element [(28);],

the rotating connection elements (27,28) are arranged on the centre axis [(21)] of the drum [(20);],

the rotating connection element (27,28) comprises a rotor [(31)] and a stator [(32)], and the rotor [(31)] is arranged to rotate with the drum [(20)] around the centre axis [(21)] and the stator [(32)] is arranged non-rotatable[;],

the rotor [(31)] of the first rotating connection element [(27)] is connected to the first data transmission cable [(16)] of the supply cable [(2)], and the stator [(32)] is connected to the information system of the mining vehicle[;],

and the rotor [(31)] of the second rotating connection element [(28)] is connected to the second data transmission cable [(17)] of the supply cable [(2)], and the stator [(32)] is connected to the information system of the mining vehicle.

Claim 6 (Currently amended): A reel as claimed in claim 5, ~~characterized in that~~
wherein

the supply cable [(2)] comprises at least one electric supply cable [(15);],

and the drum [(20)] has power transmission means [(26)] for establishing an electric connection between the electric supply cable [(15)] and the electric system [(7)] of the mining vehicle.

Claim 7 (Currently amended): A reel as claimed in claim 5 ~~or 6, characterized in that,~~
wherein

the data transmission cables ~~(16 to 19)~~ are optical fibre cables;

and the rotating connection elements ~~(27,28)~~ are rotating optical fibre connectors.